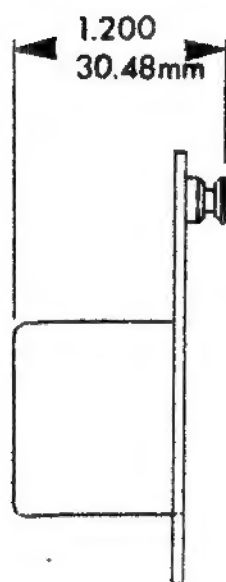


THE AM4103 PRE-AMPLIFIER IS PRIMARILY INTENDED FOR USE AS A MICROPHONE PRE-AMPLIFIER IN THE 4000 SERIES SYSTEM. IT MAY BE USED AS AN INDIVIDUAL MODULE IN OTHER ASSEMBLIES IF THE INPUT AND OUTPUT PARAMETERS SERVE THE REQUIRED PURPOSE.

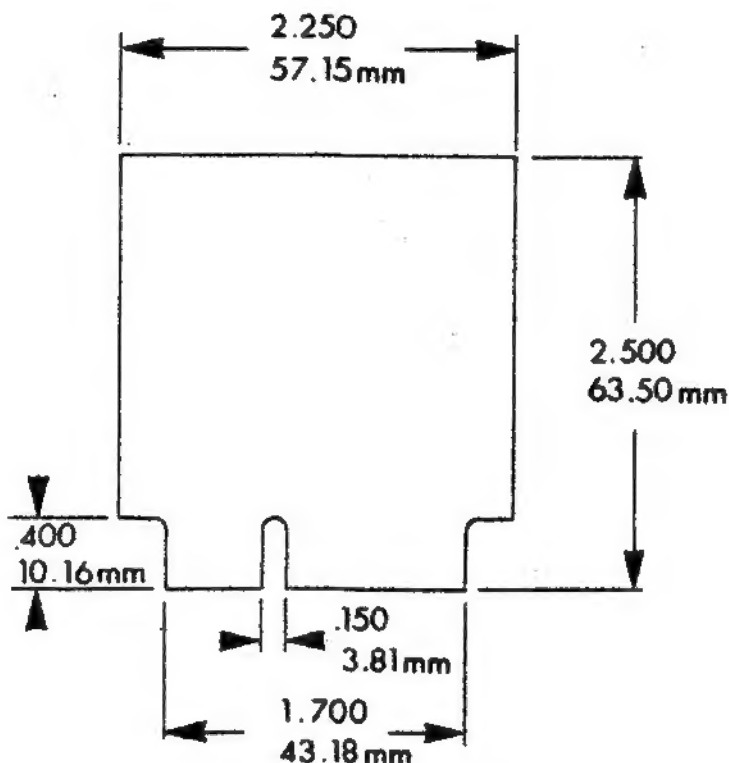
### GENERAL DESCRIPTION

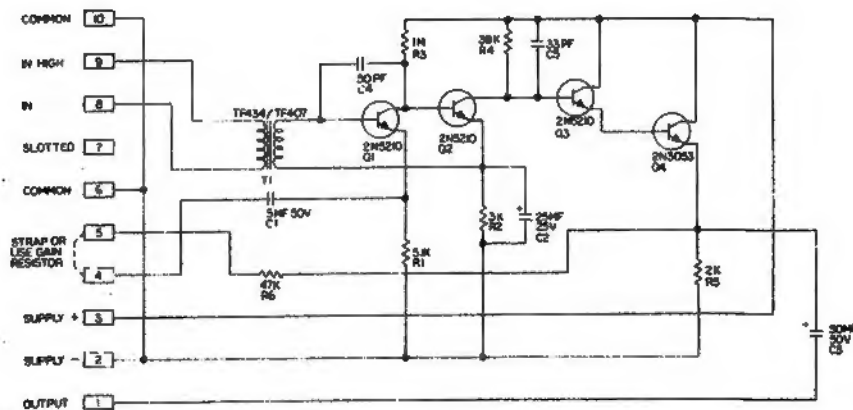
The AM4103 Pre-Amplifier is designed for microphone pre-amplification into a system load of 600 ohms. It is constructed on a plug-in printed circuit card and does not contain controls or adjustments.

The AM4103 is made available with two different input transformers. The "A" version is provided with a good quality microphone input transformer with performance characteristics sufficient for most applications. If a better frequency response and improved low frequency distortion is required, the AM4103B with the high quality input transformer should be used.



4100 SERIES





## ELECTRICAL SPECIFICATIONS

SOURCE IMPEDANCE:

250 ohms nominal

GAIN:

Max 60 db

Change of feedback resistor changes gain:

|           |                  |
|-----------|------------------|
| 180K ohms | 60 db gain       |
| 150K ohms | 59 db gain       |
| 100K ohms | 56 db gain       |
| 51K ohms  | 53 db gain       |
| 20K ohms  | 50 db gain       |
| 0 (strap) | 47 db gain (mir) |

FREQUENCY RESPONSE:

$\pm 1$  db 30 hz to 15 Khz

LOAD IMPEDANCE:

600 ohms or more

OUTPUT MAX:

+ 14 dbm/600 ohms

HARMONIC GENERATION:

Less than .1% at 1 Khz

POWER REQUIREMENTS:

42 volts dc/36 ma

SIZE:

2- $\frac{1}{4}$ " wide X 2- $\frac{1}{2}$ " long

MATING CONNECTOR:

Cinch 252-10-30-24D

MOUNTING:

The AM 4103 type amplifier may be mounted in TRY-4000 or MG 91.